**************************************	RT		
DUNTRY	ussr		DATE DISTR.30 Mar 1954
JBJECT	Ukrainian Ra Fish Plates/	ilways/Rolling Stock, Passenger Train Perso	/Ties/ NO.OF PAGES 5 50X onnel
ACE QUIRED	*	50X1	NO. OF ENCLS.
			CURRIENT TO
TE OF INFORMAT	RMATION APPECTING THE NATIONAL DE W THE MEANING OF TITLE 18, SECTION AS ANEMORE. ITS TRANSMISSION OR R RECEIPT BY AN UNAUMORIZED PERS	50X1	SUPPLEMENT TO REPORT NO. S IS UNEVALUATED INFORMATION
TE OF INFORMAT	NATION APPECTING THE NATIONAL BE IN THE MEANING OF TITLE 18, SECTION AS AUGUSTED OF A SECTION AS AUGUSTED OF A SECTION AS AUGUSTED OF A SECTION AS AUGUSTED FROM THE POINT IS PROMISE.		
QUIRED TE OF INFORMAT.	RMATION APPECTING THE NATIONAL DE W THE MEANING OF TITLE 18, SECTION AS ANEMORE. ITS TRANSMISSION OR R RECEIPT BY AN UNAUMORIZED PERS		
QUIRED TE OF INFORMAT.	RMATION APPECTING THE NATIONAL DE W THE MEANING OF TITLE 18, SECTION AS ANEMORE. ITS TRANSMISSION OR R RECEIPT BY AN UNAUMORIZED PERS		

- a. The railway lines, of consequence in the Ukraine, were all supported by wooden ties. We had no metal or concrete only wood. Railroad ties used in the Ukraine were always creosoted at plants specifically designed for such endeavor. There were two such plants in the Southwestern USSR, one located in Dnepropetrovsk proper and the other near the Petrovski plant, north of the city. The latter plant (near Petrovski) in 1943 was moved by the Germans to the left bank of the Dneiper at Nizhne-Amur, Dnepropetrovsk. Creosoting plants in the USSR are called spalo propitochni zavodi /tie saturating plants/. Ties in the area were derived primarily from sosna /pine/.
- b. Ties were not generally preadzed. Such adzing as was necessary was effected at the time the tie was laid under the rail and kastile spikes were to be driven. having ever seen any prebored ties. Above ties were not generally preadzed, however, when new lines of any length were laid, some preadzing had been done at the tie factories.

50X1

50X1

c. In 1940 when heavy lines were laid in the Donbas region and old lines rebuilt, all the ties on the existing lines were replaced by new ones.

CLASSIFICATION SECR	ET	
	DISTRIBUTION	
		ORR EV

SEE LAST PAGE FOR SUBJECT & AREA CODES

- 2 -

d. Large numbers of spare ties were always stored at various rail sidings along the main lines at Sinelnikovo and Dnepropetrovsk.

50X1

2. Ballast

- a. Prior to 1940 ballast in the Donbas region was essentially composed of sand, with a little granite. Sometimes rakushke \(\frac{1}{2}\) cockle-shells \(\frac{1}{2}\) were hauled from the sea coast and used as ballast. In 1940, however, the Sinelni-kovo-Uzel \(\sigma \) Donbas line was reconstructed. Heavy ties were used with only granite ballast tamped between them.
- The Merefa Kherson line heavy granite ballast.
 The Uzlovaya-Donbas line heavy granite ballast.

3. Tie-spacing

- a. On the Merefa Kherson line ties were spaced at approximately 24 inch intervals. I would estimate that there were close to 1600 ties per kilometer on this line.
- b. The main line Chaplino-Smelnikovo-Dnepropetrovsk-Kiev, which carried heavy freight traffic, necessitated closer tie spacing. The ties on this line were spaced about 12 to 14 inches apart and averaged out close to three thousand per kilometer. Granite ballast for entire distance on the above line.

4. Rails

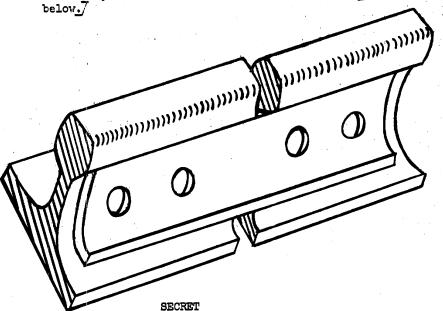
50X1

a. Rails used in the region up to the time the Viniol type. There were three types of Viniol rails. They were as follows:

50X1

- (1) The type called IA was the smallest. It was used only for spur lines to plants and very little used rail sidings.
- (2) The type called 2A was medium sized. Prior to reconstruction in 1937 it was used on secondary lines. By 1943, however, it was used on branch lines where light traffic passed.

50X1 (3) The largest rails were called type 3A. These rails were used on the magistrals /main lines/
50X1 the use of 3A rails prior to 1937 with the advent of such heavy locomotives as the Felix Derzhinsky. See diagram



a. Normally (before World War II), a passenger car carried about 72 passengers. The sleeper cars were provided with sleeping space for 56 passengers - with six passengers per compartment. Collectors Note:

In the northwestern USSR the Mezhdunarodni Vagonne (International Car), from Murmansk to Moscow, was provided with only four beds per compartment (two uppers and two lowers). The beds in Soviet sleepers were laid opposite from the US types. That is, they were laid parallel to the axles, not parallel to the windows and door.

b. One provodnik /conductor/ is assigned to each passenger car. He checks all tickets, handles lighting, assigns sleepers, and checks lavatories.
SECRET _ lı _

He rechecks all tickets at major stations and assigns seats to new passengers. Sometimes he issues a receipt for passenger tickets for less than a days' run, sometimes he doesn't.

50X1

- c. Prior to World War II the average passenger train carried 14 passenger cars.
- d. All Ukrainian passenger trains carried an Oberst or Ober Provodnik

 Chief Conductor. He was charged with the responsibility of the
 entire train. Among his duties he controlled and directed the work
 of all provodniks and also exercised control over the engineer, in
 so far as the passenger cars were concerned. The position of OberProvodnik in the USSR railway system is considered a very responsible
 one, consequently, the Ober is usually the most informed railway man
 on the entire train. The Ober is in possession of a whistle with
 which he gives the departure signal at railway stations. The
 engineer cannot start the train until the Ober has signalled by
 blowing the whistle.
- e. Personnel on passenger locomotives consist of the mashinista /engineer/ and a kachegar /fireman/. Sometimes a pomoznik /assistant/ is added to the above personnel but only when automatic stokers are not used.

9. Locomotive repair

50X1

they were inspected every one and a half to two years.

the outer surface of the trucks for both freight and passenger

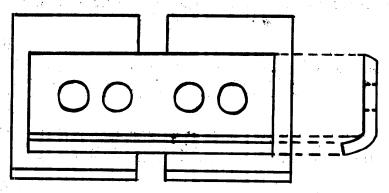
locomotives /in the center/ were painted white. Dates of last repair

and inspection were printed over the white paint.

50X1

10. Fish plates, spikes and tie plates

- 50X1 a. there were two kastiles spikes on either side of the rail on all main lines. The spikes were at least six inches long and 3/48 an inch thick. They were driven into the ties with spike mauls.
- 50X1 b. The ma kladke /fish plates/, were all of the four hole type two holes per rail. /See diagram below and diagram on page two./

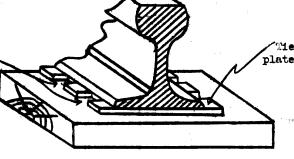


c. Pod kladke /tie plates were also four holers - two to the outer side of the rail and two on the inner side.

And the second second

Holes (or notches) in tie plates for spikes.

KADRARY SUBJECT & AREA CODES



SECRET

- end -